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**JAN 31 2007****FACSIMILE COVER SHEET**Deliver to: RAMPURIA, Sharad K., USPTOArt Group: 2617Facsimile No.: (571) 273-8300Date: January 31, 2007From: Paul A. Mendonsa, Reg. No. 42,879Our Docket No.: 42P19078Number of pages 7 including this sheet.Application No.: 10/816,401Filing Date: 3/31/2004Docket Due Date(s): 12/6/2006

Enclosed are the following documents:

- |  |   |
|--|---|
| <input type="checkbox"/> Amendment: _____ ( ____ pgs)  | <input type="checkbox"/> Issue Fee Transmittal                                    |
| <input type="checkbox"/> Appeal Brief ( ____ pgs)  | <input type="checkbox"/> Notice of Appeal   |
| <input type="checkbox"/> Application: _____  | <input type="checkbox"/> Petition for: _____                                      |
| ( ____ pgs) w/cover & abstract   | <input type="checkbox"/> Request for Continued Examination (RCE)                  |
| <input type="checkbox"/> Assignment & Cover Sheet ( ____ pgs)  | <input type="checkbox"/> Reply Brief ( ____ pgs)                                  |
| <input checked="" type="checkbox"/> Certificate of Facsimile   | <input type="checkbox"/> Request & Certification Under 35 USC 122(b)(2)(B)(i)     |
| <input type="checkbox"/> Continued Prosecution Application (CPA)   | <input type="checkbox"/> Request to Rescind Previous Nonpublication Request       |
| <input type="checkbox"/> Declaration & POA ( ____ pgs)   | <input type="checkbox"/> Response to Notice of Missing Parts & Formalities Letter |
| <input type="checkbox"/> Drawings: ____ sheets, ____ figures   | <input type="checkbox"/> Response to Written Opinion ( ____ pgs)                  |
| <input type="checkbox"/> Extension of Time: _____  | <input type="checkbox"/> Terminal Disclaimer                                      |
| <input type="checkbox"/> Fee Transmittal (in duplicate)  | <input type="checkbox"/> Transmittal of Publication Fee Due                       |
| <input type="checkbox"/> IDS & PTO/SB/08 ( ____ pgs)   | <input checked="" type="checkbox"/> Transmittal Letter                            |
| <input checked="" type="checkbox"/> Other <u>Exhibit A to be attached to the Declarations of Sangupta, Deshpande, and Knauerhase</u> |   |

**CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8A)**

I hereby certify that this correspondence is being transmitted by facsimile on the date shown below to the United States Patent and Trademark Office.

*Michelle Evans*  
Michelle Evans

1/31/2007  
Date

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<b>TRANSMITTAL FORM</b> (to be used for all correspondence after initial filing)		Application No.	10/816,401
		Filing Date	March 31, 2004
		First Named Inventor	Uttam K. Sengupta
		Art Unit	2617
		Examiner Name	RAMPURIA, Sharad K.
Total Number of Pages in This Submission	7	Attorney Docket Number	42P19078

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form  <input type="checkbox"/> Fee Attached  <input type="checkbox"/> Amendment / Reply  <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s)  <input type="checkbox"/> Extension of Time Request  <input type="checkbox"/> Express Abandonment Request  <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> PTO/SB/08  <input type="checkbox"/> Certified Copy of Priority Document(s)  <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Basic Filing Fee <input type="checkbox"/> Declaration/POA  <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s)  <input type="checkbox"/> Licensing-related Papers  <input type="checkbox"/> Petition  <input type="checkbox"/> Petition to Convert a Provisional Application  <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address  <input type="checkbox"/> Terminal Disclaimer  <input type="checkbox"/> Request for Refund  <input type="checkbox"/> CD, Number of CD(s) <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC  <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences  <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)  <input type="checkbox"/> Proprietary Information  <input type="checkbox"/> Status Letter  <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):  <div style="border: 1px solid black; padding: 5px;">         * Exhibit A to be attached to the Declarations of Sengupta, Deshpande and Knauerhase          * Fax Cover Sheet       </div>
Remarks Exhibit A was inadvertently omitted from the Declarations of Sengupta, Deshpande, and Knauerhase that were filed in support of the Response filed 11/30/06		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Paul A. Mendonsa, Reg. No. 42,879 BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
Signature	
Date	January 31, 2007

CERTIFICATE OF MAILING/TRANSMISSION			
I hereby certify that this correspondence is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.			
Typed or printed name	Michelle Evans		
Signature		Date	January 31, 2007

Based on PTO/SB/21 (09-04) as modified by Blakely, Sokoloff, Taylor & Zafman (ndc) 10/12/2006.  
 SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

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EXHIBIT A

**INTEL INVENTION DISCLOSURE**  
**ATTORNEY-CLIENT PRIVILEGED COMMUNICATION**  
 located at <http://legal.intel.com/patent/idf.asp>  
 Rev. 19 - June 2003

**34204**

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DATE: September 10, 2003WIRELESS/CTG/EPL**JAN 31 2007**

It is important to provide accurate and detailed information on this form. The information will be used to evaluate your invention for possible filing as a patent application. Invention Disclosure forms **MUST** be sent electronically via email to your manager/supervisor who should then forward with their approval to our email account "Invention disclosure submission." If you have any questions, please call 8-264-0444.

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**(PROVIDE SAME INFORMATION AS ABOVE FOR EACH ADDITIONAL INVENTOR)**

2. Title of Invention:  
**A System for Alerting Customers of Service Availability via their Cellular Phone/PDA**

3. What technology/product/process (code name) does your invention relate to (be specific if you can):  
Location Tracking

4. Include several key words to describe the technology area of the invention in addition to # 3 above:

5. Stage of development (i.e. % complete, simulations done, test chips if any, etc.):  
Concept

6a. Has a description of your invention been (or planned to be) published outside of Intel: **NO**

If YES, was the manuscript submitted for pre-publication approval through the Author Incentive Program:

If YES, please identify the publication and the date published:

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6b. Has your invention been used/sold or planned to be used/sold by Intel or others? NO

If YES, date it was sold or will be sold:

6c. Is a SIG (special interest group) active in this technology? NO

If YES, name of SIG:

6d. If the invention is embodied in a semiconductor device, what is the actual or anticipated date of tapeout?

6e. If the invention is software, actual or anticipated date of any beta tests or other distribution outside Intel:

7. Was the invention conceived or constructed in collaboration with anyone other than an Intel blue badge employee or in performance of a project involving entities other than Intel (e.g. government, other companies, universities or consortia)? NO: If YES, name of individual or entity:

NO

8. Is this invention related to any other invention disclosure that you have recently submitted? If so, please give the title and inventors:

A Scheme for scheduling Patron Services via Mobile Device Tracking technologies and Improved Scheduling algorithm.  
Deshpande, Sen Gupta, Knauerhase

9. (Optional) Which IP Committee do you think should review your invention disclosure based on the descriptions provided in the linked document? <http://legal.intel.com/Patent/iptech.asp>

Wireless Committee

**PLEASE READ AND FOLLOW THE DIRECTIONS ON  
HOW TO WRITE A DESCRIPTION OF YOUR INVENTION**

**Try to limit your description to 2-3 pages contained in ONE WORD DOCUMENT**  
**Do NOT attach a presentation, white paper, or specification**

**ANSWER ALL OF THE QUESTIONS BELOW**

**Please provide a description of the invention and include the following information:**

**1. Describe in detail what the components of the invention are and how the invention works.**

The following scenario is familiar to anybody who goes to a service establishment without a reservation policy (e.g., restaurant, hair dresser). Typically, when a customer walks up to the service counter on a busy evening they are told that there is wait of 45 minutes with 5 parties ahead of them. The customer adds their name to the list along with number of people in their party and the establishment asks the patron to wait or come back after the wait time. Some of these establishments are starting to provide a mobile wireless device to these waiting customers. This device beeps when the customer goes out of the wireless range. When their table is ready the restaurant sends in a voice alert over this device. These devices are large, poorly designed, have limited range resulting in overall poor user experience. It also seems strange that you need this device when most people carry a very capable cell phone. The invention we propose is a new form of data services that can be offered by cellular operators for their customers as shown in figure below.

The invention comprises of the following components:

**User**

- > Location-enabled Cell Phone
- > Client Software (Customer Tracking & Alert System)

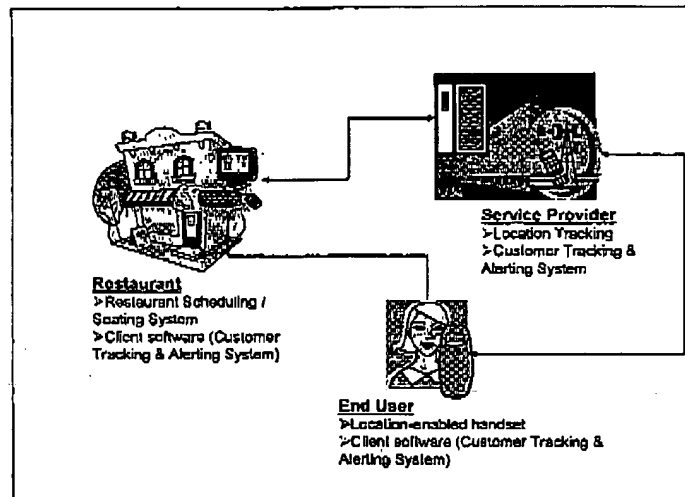
**Restaurant**

- > Restaurant Scheduling and Seating System
- > Client Software (Customer Tracking & Alert System)

**Service Provider**

- > Location Tracking
- > Customer Tracking & Alert System

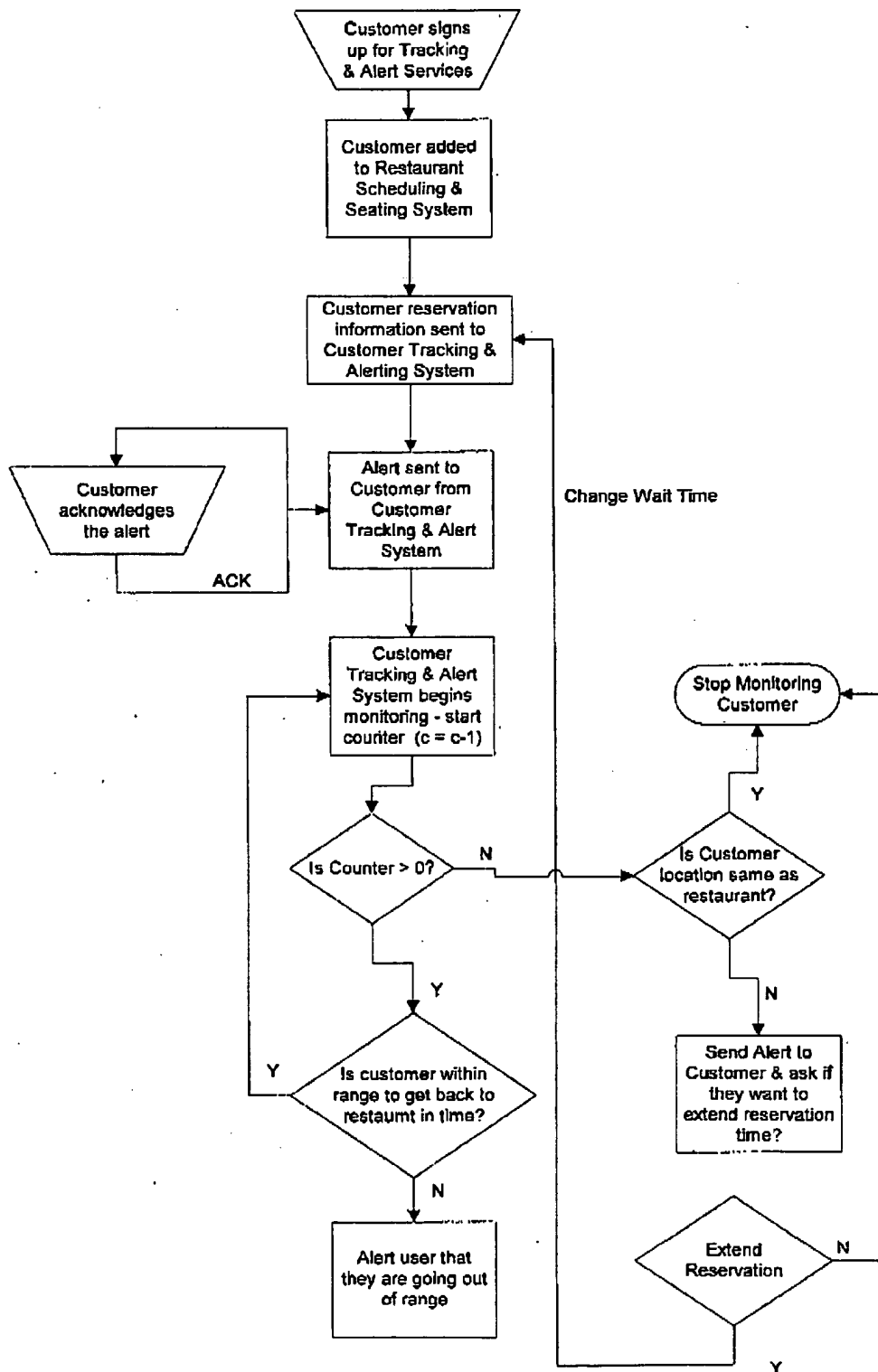
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The system process flow is shown below and also via a flowchart.

- User provides the following information to restaurant
  - Phone number, # of people in party, seating preferences
- Restaurant system connects with Service provider system and provides user phone #, wait time and location coordinates
- Service Provider sends an alert to user about wait time to get user opt in for tracking
- User Acknowledges receipt of message which activates the tracking and alerting
- Service provider starts a countdown of wait time and measures distance of user from restaurant at periodic intervals (divides wait time by say 5)
- At end of each time interval, system checks user location to determine if they can get back to restaurant in time. If user location is such that travel time from user location to restaurant location exceeds wait time then alert user – you will not make it to restaurant in time, would you like to extend your reservation?
- If user says yes, service provider updates the restaurant system of new wait time
- If user crosses safe return boundary and does not acknowledge alert it does nothing till countdown is not over
- This process continues till countdown completes, restaurant system sends customer seated message or if user sends cancellation message.

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**Intel Confidential****2. Describe advantage(s) of your invention over what is currently being done.**

Takes advantage of a common device that most users carry (i.e., cell phone) and using existing information (i.e., location) that is present with the service providers. Today this is done by giving a mobile device to the patron and asking her/him to stay within a prescribed range. When the restaurant is ready to serve the patron, some type of message is sent to the customer.

**3. You MUST include at least one figure illustrating the invention. If the invention relates to software, include a flowchart or pseudo-code representation of the algorithm.****4. Value of your invention to Intel (how will it be used by Intel or a competitor).**

The invention takes advantage of location tracking of the customer via the mobile device. The client-server software needed to enable the mobile device for providing this service could be part of PCA SW offering. PCA device could be thus a preferred device for receiving personalized location based services.

**5. Explain how your invention is novel. If the technology itself is not new, explain what makes it different.**

This invention is a novel idea for a data services. Many of the technologies used in this invention are available today but have not be put together in a system such as this..

**6. Identify the closest or most pertinent prior art that you are aware of.**

A Guest Paging System as developed by [www.itech.com](http://www.itech.com)

**7. Who is likely to want to use this invention or infringe the patent if one is obtained?**

Cellular service providers, mobile device vendors, and phone manufacturers, location based service providers and ASPs are likely to infringe this invention/patent.

**8. How would Infringement be detected?**

Detecting the infringement can be achieved by simply monitoring the emerging usage models in location based services.

**HAVE YOUR MANAGER/SUPERVISOR READ AND FORWARD THIS DISCLOSURE ELECTRONICALLY  
VIA E-MAIL TO "INVENTION DISCLOSURE SUBMISSION"**

**BY APPROVING, YOUR MANAGER/SUPERVISOR IS ACKNOWLEDGING THAT THE DISCLOSURE HAS  
BEEN READ AND UNDERSTOOD, AND RECOMMENDS THAT THE DISCLOSURE AWARD BE PAID**